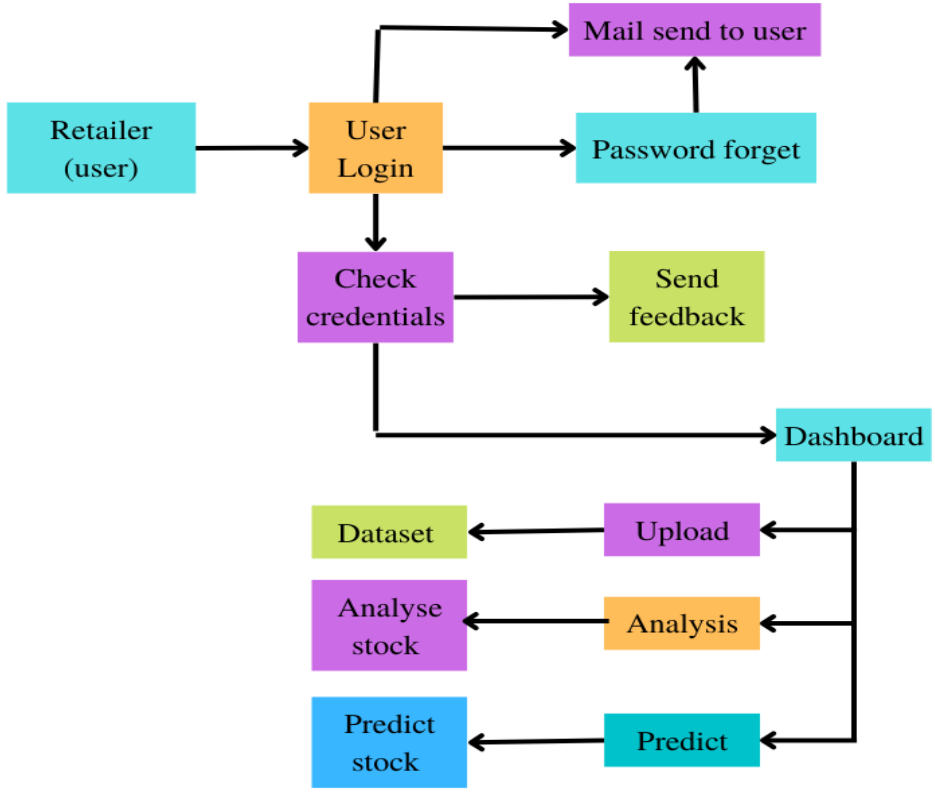
Project Design Phase-II
Data Flow Diagram & User Stories

Date	10 October 2022
Team ID	**PNT2022TMID27475**
Project Name	Retail Store Stock Inventory Analytics
Maximum Marks	4 Marks

Data Flow Diagram:

A Data Flow Diagram (DFD) is a traditional visual representation of the information flows within a system. A neat and clear DFD can depict the right amount of the system requirement graphically. It shows how data enters and leaves the system, what changes the information, and wheredata is stored.



Product Backlog, Sprint Schedule, and Estimation (4 Marks)

Use the below template to create product backlog and sprint schedule

Sprint	Functional Requirement (Epic)	User Story Number	User Story / Task	Story Points	Priority	Team Members
Sprint-1	Registration	USN-1	As a user, I can register for the application by entering my email, password, and confirming my password.	10	High	Joel,Logesh
Sprint-1	Confirmation	USN-1	As a user, I will receive confirmation email once I have registered for the application	10	Medium	Joel,Logesh
Sprint-2	Front end	USN-2	As a user, to access the homepage as well as dashboard and to use the prediction algorithm of the product.	20	High	Paul Sujan,Mandi Mohammed Zayaan
Sprint-3	Building prediction algorithm	USN-3	As a user, I can access the prediction algorithm and get valid and legit predictions.	20	High	Paul Sujan,Mandi Mohammed Zayaan
Sprint-4	View and search of products	USN-4	As a user, I can view and search the services available in the product.	10	Medium	Paul Sujan,Joel
Sprint-4	Reports and Invoice generation	USN-5	As a user, I can view the reports and invoice for the services used.	10	Medium	Logesh,Mandi Mohammed Zayaan

Project Tracker, Velocity & Burndown Chart: (4 Marks)

Sprint	Total Story Points	Duration	Sprint Start Date	Sprint End Date (Planned)	Story Points Completed (as on Planned End Date)	Sprint Release Date (Actual)
Sprint-1	20	6 Days	24 Oct 2022	29 Oct 2022	20	29 Oct 2022
Sprint-2	20	6 Days	31 Oct 2022	05 Nov 2022	20	05 Nov 2022
Sprint-3	20	6 Days	07 Nov 2022	12 Nov 2022	20	12 Nov 2022
Sprint-4	20	6 Days	14 Nov 2022	19 Nov 2022	20	19 Nov 2022

Velocity:

Imagine we have a 10-day sprint duration, and the velocity of the team is 20 (points per sprint). Let's calculate the team's average velocity (AV) per iteration unit (story points per day)

$$AV = \frac{sprint\ duration}{velocity} = \frac{20}{10} = 2$$

Burndown Chart:

A burn down chart is a graphical representation of work left to do versus time. It is often used in agile software development methodologies such as Scrum. However, burn down charts can be applied to any project containing measurable progress over time.